

Dr. Lori S. Glaze
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EDUCATION

- 1994 Ph.D. Environmental Science, Lancaster University, England
Thesis Title: A multi-component model for volcanic plumes
- 1989 M. S. Physics, University of Texas, Arlington, Texas
Thesis Title: A diffusion model applied to remote sensing studies of volcanic eruption plumes
- 1985 B. A. Physics, University of Texas, Arlington, Texas

EMPLOYMENT HISTORY/QUALIFICATIONS

NASA GSFC (2007 to Present)

Planetary Scientist. Dr. Glaze is an active NASA investigator (PI and Co-I), with numerous peer reviewed science publications.

Performs scientific research on physical processes in terrestrial and planetary volcanology, atmospheric transport and diffusion processes, geologic mass movements, and environmental and geologic hazards. Research interests focus on data analysis and theoretical modeling of surface processes on all the terrestrial solar system bodies, particularly the Earth, Moon, Mars, Venus, and Io. Develops statistical, analytical, and data management methods in support of physical process modeling and geologic hazard assessment. Develops applications of diverse sets of terrestrial and planetary remote sensing data. Responsible for writing numerous successful NASA grant proposals, and has served on several NASA review panels for science proposals, participating scientist investigations, as well as NASA space flight missions.

Proxemy Research (1994 to 2007)

Senior Research Scientist, Vice President, and Secretary. Managed all aspects of contracting, grants, and financial vehicles, including budgeting, scheduling, staffing, and deliverables. Provided direct supervision of Proxemy Research employees and consultants. Represented Proxemy Research on business matters in areas related to scientific research, technical applications, educational initiatives, and technology transfer. Routinely participated in the documentation of corporate overhead for government audits.

Scientific research interests focused on physical processes in terrestrial and planetary volcanology, atmospheric transport and diffusion processes, geologic mass movements, and environmental and geologic hazards.

Developed and applied advanced statistical methods for the evaluation, control, and analysis of measurement data, particularly very large data sets arising from satellite remote sensing instrumentation, nuclear material control and accountability, and environmental applications. Provided mathematical, statistical, and systems support on nuclear and hazardous material protection systems, including propagation of variance, inventory difference behavior, and material detection and analysis algorithms. Provided technical support on nuclear material accountability systems and analysis of fissile material inventories and measurements for the DOE Office of Pu, U and Special Materials Inventory. Developed corporate training and educational materials. Statistics instructor for MC&A courses at the DOE Training Academy, Arizona State University Geology Department, NASA's Goddard Space Flight Center, and University of Buffalo Geology Department.

Universities Space Research Associates (1994 to 1996)

Visiting Scientist at NASA's Goddard Space Flight Center. Activities included data management and analysis of large data-bases from earth and planetary satellites. Research involved the application of diverse sets of volcanological remote sensing data. As an EOS IDS team collaborator, was responsible for the development of algorithms to monitor volcanic activity on a routine basis from EOS satellites, as well as a software user interface for estimating surface topography for large volcanic plumes. Participated as Co-I on a project to make NASA remote sensing data broadly available to the science community and the public via the World Wide Web in its earliest days. Conducted research in mathematical and physical modeling of volcanological processes.

Jet Propulsion Laboratory (1990 to 1994)

Member of Technical Staff. As Project Scientist (1992-1994) for the JPL Pilot Land Data System, was responsible for the management of a team that produced compact disc compilations of remote sensing data. Science research included theoretical modeling of volcanic plume and lava flow dynamics on Earth and terrestrial planets. Also, application of mathematical models to remote sensing data of volcanic phenomena, particularly in the short wavelength infrared (0.7 - 2.5 μm).

Ball Aerospace (1989 to 1990)

Contractor to Jet Propulsion Laboratory. Science coordinator of the JPL internal study for OVO (potential NASA mission to observe volcanic activity). Research focused on theoretical modeling of volcanic processes.

Lunar and Planetary Institute, Houston, Texas (1988)

Graduate Fellow. Research entailed use of short wavelength infrared remote sensing data to quantify temperatures and sizes of extremely hot (~800EC) sub-pixel sized thermal anomalies. Continuation of M.S. work on spectral characteristics of volcanic eruption plumes.

University of Texas at Arlington (1986 to 1988)

Graduate Research and Teaching Assistant. Research included documentation of several volcanic eruptions using remote sensing data and detailed theoretical studies of the downwind dispersal of volcanic ash based on turbulent diffusion. Teaching Assistant responsibilities included teaching of undergraduate Physics laboratories and classroom instruction. Also conducted theoretical studies of two, three, and four atom Carbon Clusters for several geometries.

SELECTED PROFESSIONAL ACHIEVEMENTS

- X Served on NASA's Venus Science and Technology Definition Team (2008)
- X Served on NASA science definition teams for future satellite missions to **Venus** and **Earth**.
- X **Vice President** (1997 – 2007) and **Secretary** (2003 – 2007) of Proxemy Research.
- X **Principal Investigator** (1993 - present) on several NASA science grants awarded by national-level scientific peer review. **Co-Investigator** on numerous NASA science grants involving research in terrestrial and planetary remote sensing, physics modeling, and the management of satellite data.
- X Participated in writing a **NASA Mars Scout** mission proposal, including a major role in clarifying measurement requirement traceability.
- X Associate editor for the **Journal of Geophysical Research – Solid Earth**.
- X Served on NASA proposal review panels as **Panel Member**, **Group Chief**, and **Panel Chair**.
- X Selected as **Project Scientist** for the JPL Pilot Land Data System (PLDS). Activities included management of a team that produced compact disc compilations of remote sensing data.

SCIENTIFIC PUBLICATIONS

- Baloga, SM and LS Glaze (2008) A self-replication model for long channelized lava flows on the Mars plains. J Geophys Res/Planets, in press.
- Glaze, LS and SM Baloga (2007) Topographic variability on Mars: Implications for lava flow modeling. J Geophys Res, 112, E08006, doi:10.1029/2006JE002879.
- Martin, P, ER Stofan, LS Glaze and S Smrekar (2007) Coronae of Parga Chasma, Venus. J Geophys Res, 112, E04S03, doi: 10.1029/2006JE002758.
- Baloga, SM, LS Glaze and BC Bruno (2007) Nearest neighbor analysis of small features on Mars: Applications to tumuli and rootless cones. J Geophys Res, 112, E03002, doi:10.1029/2005JE002652.
- Glaze, LS and SM Baloga (2006) Rheologic inferences from the levees of lava flows on Mars. J Geophys Res, 111, E09006, doi:10.1029/2005JE002585.
- Glaze, LS, SW Anderson, ER Stofan, SM Baloga and SE Smrekar (2005) Statistical distribution of tumuli on pahoehoe flow surfaces: Analysis of examples in Hawaii and Iceland and potential applications to lava flows on Mars. J Geophys Res, 110, B08202, doi:10.1029/2004JB003564.
- Barnouin-Jha, OS, S Baloga, and L Glaze (2005) Comparing landslides to fluidized crater ejecta on Mars. J Geophys Res, 110, E04010, doi:10.1029/2003JE002214.
- Bulmer, MH, LS Glaze, KM Shockey, and S Anderson (2005) Using grain size distributions to improve understanding of emplacement mechanisms. J Geophys Res, 110, B01201, doi:10.1029/2003JB002841.
- Glaze, L.S., S.M. Baloga and E.R. Stofan (2003) A methodology for constraining lava flow rheologies with MOLA. Icarus, 165:26-33.
- Glaze, L.S. and S.M. Baloga (2003) DEM flow path prediction algorithm for geologic mass movements. Environmental and Engineering Geoscience, 9:225-240.
- Baloga, S.M., P.J. Mouginis-Mark and L.S. Glaze (2003) Rheology of a long lava flow at Pavonis Mons, Mars. J Geophys Res, 108, E7, doi:10.1029/2002JE001981.
- Baloga, S.M. and L.S. Glaze (2003) Pahoehoe transport as a correlated random walk. J Geophys Res, 108, B1, doi:10.1029/2001JB001739.
- Glaze, L.S., E.R. Stofan, S.E. Smrekar, and S.M. Baloga (2002) Insights into corona formation through statistical analyses. J Geophys Res, 107, E12, doi:10.1029/2002JE001904.
- Glaze, L.S. and S.M. Baloga (2002) Volcanic plume heights on Mars: Limits of validity for convective models. J Geophys Res, 107, E10, doi:10.1029/2001JE001830.
- Glaze, L.S., S.M. Baloga and O.S. Barnouin-Jha (2002) Rheologic inferences from high water marks. Geophys Res Letts, 29:49.
- Baloga, S.M., L.S. Glaze, M.N. Peitersen and J.A. Crisp (2001) Influence of volatile loss on thickness and density profiles of active basaltic flow lobes. J Geophys Res, 106:13,395.
- Glaze, L.S. and S.M. Baloga (2000) Stochastic-ballistic eruption plumes on Io. J Geophys Res, 105:17,579-17,588.
- Glaze, L.S. (1999) Transport of SO₂ on Venus by explosive volcanism. J Geophys Res, 104:18,899-18,906.
- Glaze, L.S., L. Wilson and P.J. Mouginis-Mark (1999) Volcanic eruption plume top topography and heights as determined from photoclinometric analysis of satellite data. J Geophys Res, 104:2989-3001.
- Glaze, L.S. and S.M. Baloga (1998) Dimensions of Pu'u O'o lava flows on Mars. J Geophys Res, 103:13,659-13,666.
- Baloga, S., L.S. Glaze, J.A. Crisp, and S.A. Stockman (1998) New statistics for estimating the bulk rheology of active lava flows: Puu Oo examples. J Geophys Res, 103:5133-5142.
- Glaze, L.S., S.M. Baloga and L. Wilson (1997) Transport of atmospheric water vapor by volcanic plumes. J Geophys Res/Atmospheres, 102: 6099-6108.
- Pieri, D.C., A.P. Khrenov, T.P. Miller, S.E. Zharinov, V. Realmuto, M. Abrams, L.S. Glaze, A.B. Kahle,

- V. Drozhnin, V. Dvigalo, V. Kirianov, E. Abbott and S. Chernobyeff (1997) Joint effort results in first TIMS survey of Kamchatka volcanoes. EOS, Trans Am Geophys Union, 78:125-128.
- Glaze, L.S. and S.M. Baloga (1996) Sensitivity of buoyant plume heights to ambient atmospheric conditions: Implications for volcanic eruption columns. J Geophys Res/Atmospheres, 101:1529-1540.
- Abrams, M. and L. Glaze (1994) Fumarole detection at Colima volcano, Mexico using Landsat Thematic Mapper Data. Sisterna Terra, 3 no. 2:45-46.
- Oppenheimer, C., P. Francis, D. Rothery, D. Carlton and L. Glaze (1993) Interpretation and comparison of volcanic thermal anomalies in Landsat Thematic Mapper infrared data: Volcan Lascar, Chile, 1984-1991. J Geophys Res, 98:4269-4286.
- Glaze, L.S., and S. Self (1991) Ashfall dispersal for the 16 September 1986, eruption of Lascar, Chile, calculated by a turbulent diffusion model. Geophys Res Letts, 18:1237-1240.
- Abrams, M.J., L.S. Glaze and M. Sheridan (1991) Monitoring Colima volcano, Mexico using satellite data. Bull Volcanol, 53:571-574.
- Mouginis-Mark, P., S. Rowland, P. Francis, T. Friedman, J. Gradie, S. Self, L. Wilson, J. Crisp, L. Glaze, Jones, A. Kahle, D. Pieri, H. Zebker, A. Krueger, L. Walter, C. Wood, W. Rose, Adams and R. Wolff (1991) Analysis of active volcanoes from the earth observing system. Rem Sens Env, 36:1-12.
- Pieri, D.C., L.S. Glaze and M.J. Abrams (1990) Thermal radiance observations of an active lava flow during the June 1984 eruption of Mt. Etna. Geology, 18:1018-1022.
- Rothery, D., C. Oppenheimer and L. Glaze (1990) Combining Landsat TM infrared data with an air photograph of an eruption of Volcan Arenal (6 February 1986). Boletin del Observatorio Vulcanologico del Arenal, 3:4-8.
- Francis, P.W., L.S. Glaze, D. Pieri, C.M.M. Oppenheimer and D.A. Rothery (1990) Eruption Terms. Nature, 346:519.
- Glaze, L.S., S. Self, P.W. Francis and D.A. Rothery (1989) The 16 September 1986 eruption of Lascar volcano, north Chile: Satellite investigations. Bull Volcanol, 51:149-160.
- Glaze, L.S., P.W. Francis, and D.A. Rothery (1989) Measuring thermal budgets of active volcanoes by satellite remote sensing. Nature, 338:144-146.
- Francis, P.W., L.S. Glaze and D.A. Rothery (1989) Lascar Volcano set to erupt? Nature, 339:434.

BOOK

- Sparks, R.S.J., M. Bursik, S. Carey, J. Gilbert, L. Glaze, H. Sigurdsson and A.W. Woods (1997) Volcanic Plumes. John Wiley and Sons, London.

PLDS CD-ROMs:

- Glaze, L.S., G.N. Karas, M.W. Thomas, S.I. Chernobieff and D.C. Pieri (1995) Kamchatka: Compiled Volcanology Data, Set III.
- Karas, G.N., L.S. Glaze, S.I. Chernobieff, M.W. Thomas, and D.C. Pieri (1994) Mauna Loa: Compiled Volcanology Data, Set II.
- Glaze, L.S., G.N. Karas, S.I. Chernobieff, M.W. Thomas, E.D. Paylor, and D.C. Pieri (1993) Kilauea: Compiled Volcanology Data, Set I.

ABSTRACTS:

- Glaze, LS, SM Baloga and ER Stofan (2008) A new approach to inferences for pancake domes on Venus. Proceedings of the Thirty-ninth Lunar and Planetary Science Conference, CD-ROM. Paper #.
- Baloga, SM and LS Glaze (2008) Regional similarity of leveed lava flows on the Mars plains. Proceedings of the Thirty-ninth Lunar and Planetary Science Conference, CD-ROM. Paper #.

- Bleacher, J et al. (2008) Proceedings of the Thirty-ninth Lunar and Planetary Science Conference, CD-ROM. Paper #.
- Glaze, LS, J Bleacher, R Greeley, TD Glotch, and SM Baloga (2007) Spatial analyses for small vents South of Pavonis Mons. Proceedings of the Geological Society of America, Paper #46-13.
- Glaze, LS and SM Baloga (2007) Topographic variability on Mars: Implications for lava flow modeling. Proceedings of the Thirty-eighth Lunar and Planetary Science Conference, CD-ROM. Paper #1162.
- Baloga, SM and LS Glaze (2007) Time-dependent levee growth for Mars lava flows. Proceedings of the Thirty-eighth Lunar and Planetary Science Conference, CD-ROM. Paper #1276.
- Burr, DM, BC Bruno, SM Baloga and LS Glaze (2007) Spatial analysis as a discriminator: Results for three additional types of mesoscale mound and raised rim morphologies. Proceedings of the Thirty-eighth Lunar and Planetary Science Conference, CD-ROM. Paper #2245.
- Glaze, LS and SM Baloga (2006) Topographic variability: Implications for lava flow modeling. Proceedings of the Thirty-seventh Lunar and Planetary Science Conference, CD-ROM. Paper #1302.
- Baloga, SM and Glaze (2006) Volatile losses from lava flows revisited: Implications for large sheet flows on Mars. Proceedings of the Thirty-seventh Lunar and Planetary Science Conference, CD-ROM. Paper #1961.
- Bulmer, MH, B. Zimmerman and L Glaze (2006) An examination of the rheology of Martian mass movements. Proceedings of the Thirty-seventh Lunar and Planetary Science Conference, CD-ROM. Paper # XXX.
- Bulmer, MH and LS Glaze (2005) Distinguishing between primary and secondary emplacement of blocky volcanic deposits using rock size distributions. Proceedings of the Thirty-sixth Lunar and Planetary Science Conference, CD-ROM. Paper #1676.
- Martin, P, ER Stofan, and LS Glaze (2005) Analysis of coronae in the Parga Chasma region, Venus. Proceedings of the Thirty-sixth Lunar and Planetary Science Conference, CD-ROM. Paper #1617.
- Glaze, LS, and SM Baloga (2004) Simulation of complex pahoehoe flow fields. EOS Transactions AGU, 85 (28), West Pac Geophys Suppl, Abstract V42A-02.
- Baloga, SM, LS Glaze, and S Rowland (2004) Modeling random influences on the style of pahoehoe emplacement. EOS Transactions AGU, 85 (28), West Pac Geophys Suppl, Abstract V42A-01.
- Spudis, PD, N Jackson, S Baloga, B Bussey and L Glaze (2004) The composition of the lunar megaregolith: Some initial results from global mapping. Proceedings of the Thirty-fifth Lunar and Planetary Science Conference, CD-ROM. Paper # 1512.
- Glaze, LS, SM Baloga, PJ Mouginis-Mark and J Crisp (2004) A model for variable levee formation rates in an active lava flow. Proceedings of the Thirty-fifth Lunar and Planetary Science Conference, CD-ROM. Paper # 1036.
- Shockey, KM, LS Glaze and SM Baloga (2004) Analysis of Alba Patera flows: A comparison of similarities and differences. Proceedings of the Thirty-fifth Lunar and Planetary Science Conference, CD-ROM. Paper # 1154.
- Baloga, SM, LS Glaze and PD Spudis (2004) A model for the origin of the dark ring at Orientale basin. Proceedings of the Thirty-fifth Lunar and Planetary Science Conference, CD-ROM. Paper # 1035.
- Anderson, SW, L Glaze, E Stofan and S Baloga (2003) The Spatial Distribution of Lava Flow surface features on Earth and Mars. Proceedings of the Thirty-fourth Lunar and Planetary Science Conference, CD-ROM. Paper # 1080.
- Baloga, SM, LS Glaze, DA Crown (2003) Scaling of Pahoehoe Flow Field Features. Proceedings of the Thirty-fourth Lunar and Planetary Science Conference, CD-ROM. Paper # 1437.
- Bulmer, MH, L Glaze, KM Shockey, OS Barnouin-Jha and W Murphy (2003) Insights into the Emplacement of Rock Avalanches on Mars. Proceedings of the Thirty-fourth Lunar and Planetary Science Conference, CD-ROM. Paper # 1225.
- Glaze, LS, SM Baloga, ER Stofan, PJ Mouginis-Mark, KM Shockey and S McColley (2003) Rheology Comparisons for Several Martian and Terrestrial Lava Flows. Proceedings of the Thirty-fourth Lunar

- and Planetary Science Conference, CD-ROM. Paper # 1315.
- Stofan, ER, LS Glaze, SE Smrekar and SM Baloga (2003) A Statistical Analysis of Corona Topography: New Insights into Corona Formation and Evolution. Proceedings of the Thirty-fourth Lunar and Planetary Science Conference, CD-ROM. Paper # 1594.
- Glaze, LS, ER Stofan, SM Baloga, SM McColley, S Sakimoto and D Mitchell (2002) MOLA constraints on lava flow rheologies. Proceedings of the Thirty-third Lunar and Planetary Science Conference, CD-ROM.
- Baloga, SM, LS Glaze and JA Crisp (2002) Channelized lava flows with density changes during emplacement. Proceedings of the Thirty-third Lunar and Planetary Science Conference, CD-ROM.
- Bulmer, M, L Glaze, S Baloga, OS Barnouin-Jha, W Murphy, and G Neumann (2002) Modeling mass movements for planetary studies. Proceedings of the Thirty-third Lunar and Planetary Science Conference, CD-ROM.
- Mitchell, K, L Wilson and L Glaze (2002) Influence of climate on magmatic eruptions and some speculations concerning pyroclastic flows on Mars. Proceedings of the Thirty-third Lunar and Planetary Science Conference, CD-ROM.
- Glaze, LS, SM Baloga, ER Stofan and SM McColley (2001) New Constraints on Martian Lava Flow Rheologies From MOLA. Fall Meeting of the American Geophysical Union, abstract #P31B-06, CD-ROM.
- Baloga, SM, PJ Mougini-Mark and LS Glaze (2001) Massive Debris Flows at Pavonis and Arsia Montes, Mars. Fall Meeting of the American Geophysical Union, abstract #P31B-08, CD-ROM.
- Barnouin-Jha, OS, M Bulmer, S Baloga and L Glaze (2001) Estimating flow properties of quasi-newtonian mass-movements. Fall Meeting of the American Geophysical Union, abstract #P22D-03, CD-ROM.
- Zimbelman, JR, LS Glaze, SM Baloga and HH Miyamoto (2001) Comparison of finite difference method and computational calculus approaches in simulating lava flow paths on Mars. Proceedings of the Geological Society of America.
- Glaze, L.S. and S.M. Baloga (2001) Validity of convective plume rise models for volcanic eruptions on Mars. Proceedings of the Thirty-second Lunar and Planetary Science Conference, CD-ROM.
- Baloga, S.M. and L.S. Glaze (2001) Potential mechanisms for the formation of lava flow aureas on Io. Proceedings of the Thirty-second Lunar and Planetary Science Conference, CD-ROM.
- Stofan, E.R., S.M. Baloga, L.S. Glaze and S.E. Smrekar (2001) An updated database of coronae on Venus. Proceedings of the Thirty-second Lunar and Planetary Science Conference, CD-ROM.
- Baloga, S.M. and L.S. Glaze (2000) Pahoehoe transport as a correlated random walk. Proceedings of the Thirty-first Lunar and Planetary Science Conference, CD-ROM.
- Glaze, L.S. and S.M. Baloga (2000) Stochastic-ballistic plumes on Io: Sensitivity of deposition to high ejection angles. Proceedings of the Thirty-first Lunar and Planetary Science Conference, CD-ROM.
- Peitersen, M.N., S.M. Baloga, L.S. Glaze and J.A. Crisp (2000) The influence of degassing on the emplacement of lava flows: Implications for planetary modeling studies. Proceedings of the Thirty-first Lunar and Planetary Science Conference, CD-ROM.
- Glaze, L.S. and S.M. Baloga (1999) Application of a Stochastic-Ballistic emplacement model for Io plume deposits. Proceedings of the Thirtieth Lunar and Planetary Science Conference, CD-ROM.
- Glaze, L.S., S.M. Baloga and P.J. Mougini-Mark (1998) An unusual lava flow emplacement process at Elysium Planitia, Mars. Proceedings of the Twenty-ninth Lunar and Planetary Science Conference, CD-ROM.
- Campbell, B.A., L. Glaze and P.G. Rogers (1998) Pyroclastic deposits on Venus: Remote sensing evidence and modes of formation. Proceedings of the Twenty-ninth Lunar and Planetary Science Conference, CD-ROM.
- Glaze, L.S. and S.M. Baloga (1997) Estimates of the bulk rheology of active lava flows: A statistical

- approach. EOS, Fall AGU.
- Fink, J.H. and L. Glaze (1997) Surviving the coming volcanic data debris avalanche. EOS, Fall AGU.
- Glaze, L.S., S.M. Baloga, S.A. Stockman and J.A. Crisp (1997) Simulations of Puu Oo lava flows on Mars. Proceedings of the Twenty-eighth Lunar and Planetary Science Conference, CD-ROM.
- Glaze, L.S., L. Wilson and S. Self (1997) Using the MODIS instrument to determine plume top temperatures, topography and altitude. General Assembly of the International Association of Volcanology and Chemistry of the Earth's Interior, January 20 - 24.
- Glaze, L.S. and S.M. Baloga (1996) Simulation of pahoehoe lava flow emplacement over digital topography. EOS 77:S262.
- Glaze, L.S., (1994) A theoretical study of SO₂ transport by explosive volcanism on Venus. Proceedings of the Twenty-fifth Lunar and Planetary Science Conference, 429-430.
- Glaze, L.S., S.M. Baloga and L. Wilson (1993) Atmospheric Water Vapor Transport by Volcanic Plumes. EOS, 74:114.
- Wilson, L. and L.S. Glaze (1993) Rise Heights of Eruption Plumes and Injection Rates of Gases into the Stratosphere. EOS, 74:105.
- Karas, G.N. and L.S. Glaze (1993) Mauna Loa Compiled Volcanology Data on Compact Disc. EOS, 74:641.
- Abrams, M., V. Realmuto, D. Pieri and L. Glaze (1993) Present and future remote sensing methods for observing and monitoring volcanoes. EOS, 74:641.
- Glaze, L.S., S.M. Baloga and L. Wilson (1993) Thermal Effects of Particle Fallout and Condensation on Explosive Eruption Plumes. General Assembly of the International Association of Volcanology and Chemistry of the Earth's Interior, September 25 - October 1.
- Glaze, L., G. Karas, S. Chernobieff, E. Abbott and E. Paylor (1992) Kilauea data set compiled for distribution on compact disc. Proceedings of the Fourth TIMS Workshop.
- Glaze, L.S., L. Wilson, S. Baloga (1991) Theoretical eruption column heights: The effects of latent heat and particle fallout. EOS, 72:569.
- Glaze, L.S., V.J. Realmuto, D.C. Pieri and C.R.J. Kilburn (1991) Thermal infrared video techniques: A study of effusive volcanism. International Conference on Active Volcanoes and Risk Mitigation, Naples, Italy, 27 August - 1 September.
- Oppenheimer, C.M.M., D.A. Rothery and L.S. Glaze (1991) Thermal monitoring of Lascar volcano, Chile, using Landsat TM infrared data. International Conference on Active Volcanoes and Risk Mitigation, Naples, Italy, 27 August - 1 September.
- Glaze, L.S., S.M. Baloga and L. Wilson (1991) Influence of latent heat and particle fallout on theoretical maximum plume heights. General Assembly of the International Union of Geodesy and Geophysics, Vienna, Austria, 11-24 August.
- Glaze, L.S., D.C. Pieri and D.A. Rothery (1990) Thermal-mechanical properties of active lava flows derived from short wavelength infrared measurements. General Assembly of the International Association of Volcanology and Chemistry of the Earth's Interior, September 3-8.
- Rothery, D.A., C.M.M. Oppenheimer, A. Borgia, L.S. Glaze and D.C. Pieri (1990) Short wavelength infrared observations of an active blocky lava flow, Volcan Arenal, Costa Rica. General Assembly of the International Association of Volcanology and Chemistry of the Earth's Interior, September 3-8.
- Glaze, L.S. and D.C. Pieri (1989) Thermal energy losses from skylights of the New Vent lava tube system. EOS, 70:1410.
- Glaze, L.S. and S. Self (1989) Quantitative analysis of the transport and deposition of volcanic ash falls. General Assembly of the International Association of Volcanology and Chemistry of the Earth's Interior, June 25 - July 1, p. 97.
- Pieri, D.C. and L.S. Glaze (1989) Orbiting Volcano Observatory (OVO): A new "Small Mission"? EOS, 70:1410.
- Francis, P.W., L.S. Glaze and D.A. Rothery (1989) Multitemporal radiant thermal energy measurements of

- active volcanoes: A new satellite technique. General Assembly of the International Association of Volcanology and Chemistry of the Earth's Interior, June 25-July 1, p. 97.
- Glaze, L.S. (1988) A quantitative analysis of the transport and deposition of volcanic ash. EOS, 69:1473.
- Self, S., L.S. Ott (Glaze), J.P. Talbot and P.W. Francis (1987) A remote study of the 1986 Lascar eruption in the Chilean Andes. EOS, 68:1551.
- Ott (Glaze), L.S. and A.K. Ray (1986) A theoretical study of Carbon clusters: Equilibrium geometries and electronic structures of C_n . Symposium on the Physics and Chemistry of Small Clusters, October, p. 95.